Please type a plus sign (+) inside this	IS C	: 1
---	------	-----

Sheet

1

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

16090-23

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449A/PTO **Application Number** 09/918,115 INFORMATION DISCL Filing Date 2001 STATEMENT BY APPLICANT, 2002 July 30, First Named Inventor Graetzel et al. (use as many sheets as necessary) **Ġroup Art Unit** 2811 Examiner Name

Attorney Docket Number

				U.S. PATENT DOCU	MENTS	
Examiner	Cite	U.S. Paten	t Document	Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevant
Initials	No.1	Number	Kind Code ² (if known)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
	4					
					 	
		<u> </u>			 	
					 	
	· · · -				/	
		<u> </u>			+	
		<u> </u>	$\overline{}$			
			1			
				×		
			-44			
			-4		ļ	
			\leftarrow		- 	
		<u> </u>				

							FOR	EIGN PATENT DOCUMEN	TS		
	Examiner Initials*	Cite :	Office		reign Patent Docu Number ⁴	Kind	d Codes	Name of Patentee or Applicant of Cited Documen	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant	Т6
1	SKI		Oilioc		19711713		,	Hoechst AG	10-01-1998	Figures Appear	H
	~~						<u> </u>	-			П
		Z									
-			_	ļ						;	
ı			/								
				\geq						7	
										2	
ı								<u> </u>		70.9 Fr.	<u></u>
l	-		L	ļ				- · · · · · · · · · · · · · · · · · · ·		V 0	4
•										200	
	Exami Signat		S	h	onsue	<u></u>	8	la	Date Considered \$ -	9-00 8 7	
•	EXAMINE	R: Initia	I if refe	rence	considered, wheth	her or n	ot citat	ion is in conformance with MPEP	609. Draw line through cita	ation if near conformance ar	ad not

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this ∞ → +
Under the Paperwork Reduction Act of 1995, no persons

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

2

Substitute for form 1449B/PTO

Sheet

Approved for use through 10/31/2002. OMB 0651-0031

S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE quired to respond to a collection of information unless it contains a valid OMB control number.

RKO Co	mplet if Known	
Application Number	09/918,115	
Filing Date	July 30, 2001	
First Named Inventor	Graetzel et al.	
Group Art Unit	2811	
Examiner Name		
Attorney Docket Number	16090-23	

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner nitials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	1				
SA)		VOGEL et al. <u>Sensitization of highly porous, polycrystalline</u> TiO2 electrodes by quantum sized CdS, Chemical Physics Letters, Nov. 9, 1990, pp. 241-246, Vol.174,No.3,4, Elsevier Science					
SIP		O'REGAN et al. <u>A low-cost, high-efficiency solar cell based on dye-sensitized colloidal TiO2 films,</u> Letters to Nature, Oct. 24, 1991, Vol. 353.					
		VOGEL et al. Quantum-Sized PbS, CdS, Ag2S, Sb2S3, and Bi2S3 Particles as Sensitzers for Various Nanoporous Wide-Bandgap Semiconductors, J. Phys. Chem., 1994, pp. 3183-2188, Vol. 98.	T				
40		Greenham et al. Charge separation and transport in conjugated-polymer/semiconductor-nanocrystal composites, Physical Review B., Dec. 15, 1996, pp.628-637, Vol. 54, No. 24.					
		Siebentritt et al. CdTe and CdS as Extremely Thin Absorber Materials in an ETA solar cell, 14th European Photovoltaic Solar Energy Conference, June 30, 1997, pp. 1823-1826, Barcelona, SP					
		Salafsky et al. Photoinduced charge separation and recombination in a conjugated polymer-semiconductor nanocrystal composite, Chemical Physics Letters, July 3, 1998,pp.297-303,Vol.290,No.4/06					
3 pp		Rost et al. <u>Transparent P-Type Semiconductors for the eta Solar Cell,</u> 2nd Wrld. Conf. and Exh. on Photovoltaic Solar Energy Conversion, July 6-10, 1998, pp.212-215, Vienna, Austria.					
Se		Bach et al. <u>Solid-state dye-sensitized mesoporous TiO2 solar</u> cells, Letters to Nature, Oct. 8, 1998, pp. 583-585, Vol 395, MacMillan Journals Ltd., London.					
R	-	Moller et al. A novel disposition technique for compound semiconductors on highly porous substrates: ILGAR, Thin Solid Films, Feb. 21, 2000, pp.113-117, Vol.361/362, Elsevier-Sequoia					
A	1	Bach, U., Solid-State Dye-Sensitized Mesoporous TiO2 Solar Cells, Thesis presented to Ecole Polytechnique Federale de Lausanne, 2000, Lausanne, Switzerland.					
		18 00 MAIL	200				
vone:	1		∑				
Examiner Signature		Showing of a Considered 379/02	,/				

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.